

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Ole Bentz  
Serial No. : 09/651,159  
Filing Date : August 30, 2000  
For : Overflow Detection and Clamping with Parallel Operand  
Processing for Fixed-Point Multipliers  
Confirmation No. : 2115  
Group Unit : 2193  
Examiner : Chat C. Do  
Customer No. : 31870

---

**CERTIFICATION UNDER 37 CFR 1.8(a) and 1.10**

I hereby certify that, on the date shown below, this correspondence is being:

**Mailing**

☐ deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, P.O. BOX 1450, Alexandria, VA 22313

**37 CFR 1.8(a)**

☐ with sufficient postage as first class mail

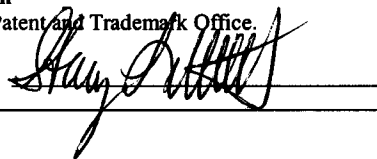
**37 CFR 1.10**

☐ As "Express Mail Post Office to Addressee" Mailing Label

**Transmission**

☒ transmitted via the Patent Electronic Filing System (EFS) at the Patent and Trademark Office.

Date: April 25, 2006



Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT AND RESPONSE UNDER 37 C.F.R. §1.111**

Dear Sir:

This Amendment and Response replies to the Office Action mailed on January 25, 2006.

**Introductory Comments** begin on *page 2* of this Response.

**Amendments to the Detailed Description** begin on *page 3* of this Response.

**Amendments to the Brief Description of the Drawings** begin on *page 4* of this Response.

**Amendments to the Claims** begin on *page 5* of this Response.

**Remarks/Arguments** begin on *page 14* of this Response.

**Replacement Drawing Sheet** is in: **Attachment A**

**New Drawing Sheet** is in: **Attachment B**

## **INTRODUCTORY COMMENTS**

After careful review, Applicant hereby responds to a January 25, 2006 non-final Office Action regarding the above-referenced patent application. In view of this Response, Applicant respectfully requests reconsideration of this application.

Applicant has amended Claims 3, 6, 13, 17 and 18, amended Figure 2, and has added new FIGURE 6. New claim 21 has been added. Applicant has not added new matter with this Response. Indeed, Applicant only offers this Response to clarify the invention for the Examiner and to assist the Examiner's understanding of the same.

The Applicant is appreciative of the Examiners furthered indication that Claims 4-5 and 10-12 are allowable.

## **AMENDMENTS TO THE DETAILED DESCRIPTION**

The detailed description has been amended to clarify the Application in conjunction with new Figure 6. Please amend the specification on page 11, second to last paragraph, as follows:

As before, the accurate clamp prediction must use the (io+1) bit of the product, i.e., the product must be computed at least to (io+1) integer bits. As shown in Figure 6, this ~~This~~ bit is logically inverted, by inverter 70, then ORed logically with the simple clamp predictor to yield the accurate clamp determination.